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University
Archives

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SCHOOL OF SCIENCE, SCHOOL OF SCIENCE, HURRAY, HURRAY, HURRAY

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No. 55

THURSDAY, SEPTEMBER 20, 1962

No. 1

Medical Electronics Hits Skule

For the first time in the history of the University of Toronto the fields of medicine and engineering were united.

The unholy alliance took place with the appointment of Professor N. F. Moody to the staff of the Electrical Engineering Department. Prof. Moody will head the newly formed Institute of Medical Electronics, and will devote the major portion of his time to research in the field of medical engineering.

The Institute will study ways of applying electronic instrumentation for medical diagnosis and surgical procedures, such as direct and instantaneous recording of alterations in blood pressure, respiration, electrical conductivity of the heart, etc.

Prof. Moody was formerly the head of the Electrical Engineering Department at the University of Saskatchewan and was director of a "bio-medical engineering" group there. His most important work has been in connection with the development of a completely new type of recording system for the measurement of cerebral blood flow transit times, a system which has been installed in the Montreal Neurological Institute. Other contributions include electrocardiogram circuits, a system for remotely monitoring cardiac behaviour.

"It is anticipated that the service rendered to medicine by engineering may well extend beyond the development of instrumentation and special-purpose devices," quoth a completely impartial press release. "Some of the newer engineering concepts, such as are involved in system analysis, should prove to be helpful in the study of the reactions of the human body."



Engineering freshmen are subjected to propaganda display organized under the various activities sponsored by the Engineering Society.

Coed Abducted, Held in Stores

(The following is a first-person report by Donna Maron, a sweet young thing, who was taken on her first tour of the Engineering Stores. Editor).

It happened one fine Sunday afternoon. I, an innocent,

unassuming artsman, was seduced into the halls of the old Electrical Building by a crafty engineer, who assumed just a bit too much.

The door was cautiously unlocked and I was ushered into another world. Immediately

New College Integrates Faculties, Lacks Skulemen

Engineering students are being encouraged to enroll in the first of four new multi-faculty residential colleges that have been planned as a part of the University of Toronto's expansion programme.

So far only about a dozen Skulemen, mostly students enrolled in engineering science, have enrolled in the new college, named simply New College.

New College Principal Frank Wetmore expressed disappointment at the weak response by engineers. "The response from engineers has not been as great as we would like," Principal Wetmore said. "We don't have enough of them".

New College was established to bring together different disciplines for reciprocal exchanges of ideas. Outside the specialization of the classroom the students will be able to enrich their university experience by their daily contact

with their fellows from other faculties: the scientist will be probed by the philosopher, the engineer will sense the perspective of history, the student of language will perceive the economy of scientific statement, the political scientist will feel the intense pace of applied science, and so the broadening of individual horizons will go on without formal notice, but indelibly.

Until its permanent home (to be located west of Sidney Smith Hall) is completed, New College will be housed at 65 St. George St. The temporary headquarters will provide a few classrooms, offices for academic and administrative staff, a common room, rooms for student activities, and facilities for noontime meals.

The permanent home will house 300 men in residence in three floors and will have two floors of academic-social space for approximately 1200 students, including women as well as men.

New College will begin its academic programme in about two weeks with tutorials in mathematics, physics, chemistry and English. These tutorials have been designed to supplement, rather than become a part of, regular lecture courses.

Both Principal Wetmore, who is Associate Dean of the Faculty of Arts and Science, and Colonel W. S. Wilson, former Secretary and Assistant Dean of the Faculty of Applied Science and Engineering, are Professional Engineers.

U of T to Honour Doukhobours

The freedomite sect of the Doukhobour religion will be the honoured guests of the University tomorrow at a ceremony to be held on the front campus, which lies directly on the route of the Freedomite's protest march from Nanimo, B.C. to Liverpool, England.

The heroic marchers left Nanimo in 1958 to march all the way to England to present their case to Sam Smith of Liverpool. Their transit of the front campus is the one-third-way mark on their journey. Since they began, seventeen children have been born to the thirteen women in the group, with the eighteenth expected very soon, maybe even on our campus.

The group is so honoured at the reception promised them that they have promised to stage their famous, colourful undressing cere-

mony for the students and staff. Any undergraduates of the university are invited to participate, with rehearsals scheduled for 8:00 p.m. at the Victory tonight.

The whole world is anxiously awaiting the year 1964 when I graduate (?) and when the sect enters on the final and most difficult portion of their trip, the walk from Halifax to Liverpool. Will they be able to walk on the water, and if they can will they be able to maintain the terrific concentration required to keep it up for three years (having children all the while).

If the Doukhobours do manage this, and do present their case to Sam Smith, then our University will be proud to have had some small part in their gargantuan task. Good luck, Doukhobours!

ately the steel and concrete door slammed closed.

I found myself involved in something I had never before experienced. It was terrific, fantabulous, amazing and oh so interesting (the Stores, of course).

My tour of the shelves began immediately; I didn't cost a cent. In fact they were even willing to pay me. They had everything there that a needy engineer might require during the course of his Skule year (well, just about everything). There was so much piled on the shelves, in fact, everything from A to Z (omitting, however, T for textbooks). In a limited amount of space some skillful engineer had managed to find room to store everything from exam reprints, all sorts of paper, pens and pencils, to sliderules, notebooks and steam tables.

I discovered even more, for before my eyes were piled up lab covers by the thousand, drafting sets and dusting brushes by the dozens.

Starting today, I was informed, freshmen will have an added opportunity to take advantage of these great savings, for freshman sales will continue until Monday in Room 22 of the Electrical Building.

LATE BULLETIN

The quiet hills of Coledon were invaded on Tuesday by a mighty Force of Freshmen B.F.C. and L.G.M.B.

The freshmen willingly gave their skills to bridge building and garbage burying among other things.

During lunch the L.G.M.B. gave a concert, playing such well known numbers as the bunnyhop to which all Freshmen hopped.

Despite foul language and hard work, a good time was had by all, and I am sure that this initiation will remain as a pleasant memory for all freshmen of 6T5.

MEETING

FRIDAY 8:30 P.M.

FREE BEER

Everybody

Welcome

TOIKE OIKE

Devoted to the interests of the undergraduates of the Faculty of Applied Science and Engineering Published every now and then by the Engineering Society of the University of Toronto.

Opinions expressed are not necessarily those of the Engineering Society or its officers.

Editor J. F. Lyons
Business Manager Stan Gasner
Photography Norm Fisher

This Issue: Don Monro, Donna Moran, Keith Stolt-Gardner, Bob Morris, Ron Evans, John Reid, Fred Ruprecht, Vic Riley and other Mafiosos.

A New Standard of Excellence

While eager engineering freshmen were registering for their courses in Toronto and other university cities in Canada, the Commonwealth Prime Minister's Conference in London was attempting to find suitable arrangements for Britain's entry into the European Common Market. Although the two events were geographically remote, history will show that they were closely connected to each other and to the economic future of Canada.

For with the advent of the ECM as a major trading bloc Canadian industry is being cut off from the European markets that helped sustain its postwar boom, and are being faced with stiff competition from the members of the Inner Six, both at home and abroad. Employing skilled labour at wage rates below those in Canada and the United States, as well as planning the development of their economies, ECM nations have been able to produce automobiles, textiles, steel and other goods more cheaply than we have. The result has been a period of wide-scale unemployment and the devaluation of the Canadian dollar.

To face this challenge Canadian engineers of the future must have patience, imagination, persistence, daring, and above all, a new standard of excellence. For Canadian industry must turn out goods that are well-engineered, rather than goods that look pretty and must be supported by large quantities of advertising in order to sell. In addition training of technicians and skilled labour must be stepped up. The policy of encouraging immigrants with special skills to settle in Canada, rather than train them here, has backfired. Some immigrants enter Canada as a stepping-stone to the United States, while many of Canada's top home-grown engineers, including many aeronautical engineers employed in the development of the ill-fated Avro Arrow, have left to seek better-paying jobs elsewhere.

Such a new standard of excellence must be instilled in engineers at the undergraduate level. No longer must an iron ring merely designate its owner as a university graduate with a technological background, or as a high-class hard-core merchant.

Future Canadian engineers, including the ones that registered at the University of Toronto last week, will meet a challenge unequalled by those that faced their predecessors. If we are to survive as a productive nation and maintain our high standard of living and cultural level, we must meet this challenge and overcome it. We must now produce goods of higher quality and lower price than our competitors, although they have the dual advantages of cheap labour and tariff barriers. We can no longer wait for their wage levels to rise, or their economic machinery to become unmanageable.

The burden of overcoming this challenge rests primarily on the shoulders of future Canadian engineers, for only by utilizing technology can a country with high standard of living produce goods at a competitive price level. Consequently engineers must be prepared to explore new fields, try new concepts, new tools and new methods, and create new skills. They must learn to utilize new sources of energy, to exploit Canada's vast natural resources, and to create further demands for Canadian goods by developing new products.

At the faculty level engineering courses should no longer be based on tradition or past practice, but should be brought up to date to the present with an eye on the future. At the student level a feeling of professional pride and a deeper curiosity in the field of engineering would go a long way to achieving this standard of excellence.

EugSoc President Welcomes Frosh

Has Skule enough spirit? Do we need a new image? Are engineering students rough-necks. These are questions which have bothered the undergraduate engineer over the past year, and which I shall endeavour to answer as part of this, my message to the student body.

Over the past year an unfortunate fusion of ideas in the minds of many engineering and non-engineering students has occurred. The fusion I am referring to is that of associating hooliganism within this faculty with our spirit and traditions. This might in part have been inspired by our Society's action last year in suspending the LGMB, the Cannon, and the BFC after an unfortunate incident. We began immediately to associate these fine institutions of Skule with a small element of hooliganism, and I submit that this is wrong. Indeed, this year we have a fine group of men in these activities; men who are willing to work hard for Skule spirit, and our famous humorous undertakings.

Your Society Executive will be working towards greater co-operation with other faculties at this University, and in fact have reorganized our external affairs department. However, they will not stand by when engineering students are misrepresented on this campus, but rather will ask for fairness in reporting in University publications.

We shall be working hard to preserve and strengthen our

traditions, our famous spirit, and to move toward a greater professional atmosphere within the Faculty. For indeed we are about to join the ranks of one of the finest professions in the world, one that has supplied tremendous leadership in building this nation.

The success of their efforts, however, will depend entirely on you, the men of Skule, and so we are asking for your support, your participation in our activities, but, of course, not to sacrifice your academic work which is our real purpose within these buildings.

This year we have planned a tremendous line-up of activities, including an excellent social programme under

the direction of your first vice-president Dave Robinson, and an excellent athletic programme under your athletic president, Bob Carmichael. Also worth mentioning is our freshman reception this year, which has changed to include a full day of work and fun at the Caledon Farm. Indeed, engineering students have demonstrated to this campus that freshmen can be indoctrinated completely, and have the best of spirit without a hazing type initiation, which often only serves to make the freshmen miserable. We have also negotiated for a new distinctive sports jacket, which has been given full support by our Executive.

Vic Riley.

Support Your Stores BARGAINS GALORE!

- SLIDE RULES
- DRAFTING EQUIPMENT
- LAB PAPER

WATCH SHOW CASE FOR SPECIALS!

RM. 24 - ELECTRICAL BUILDING

(Up one flight of stairs, half-way down the hall)

Girls Girls Girls

FOR

FRESHMEN ONLY

Tonight

AT THE

Annual Engineering FRESHMAN BASH

8.30 P.M. AT THE DRILL HALL

119 ST. GEORGE

FREE COLAS

EATON'S BANDBOX

LADY GODIVA MEMORIAL BAND

ADMISSION FREE TO THOSE WEARING A FRESHMAN TIE AND POSSESSING A 6T6 ATL CARD.

YANC to Start Classes in '63

It has been brought to the attention of the Toike Oike that the Senate of the University has just given approval to plans for yet another new college to be formed at the university. "Yet Another New College" will be the name of the college, or YANC in abbreviated form.

The philosophy of the new college will be in keeping with the short form of its name, since entrance requirements are being made so high that the only way to get into the college is to use yank (pull). Area-wise YANC will be the largest college in the world

although enrollment is not expected to exceed seven students since so few will have sufficient drag to be considered. Four thousand applications have been received for the first session commencing on St. Valentine's Day in 1963. Only one of these has been accepted, that of Hugh Heffner Jr, whose daddy has contributed many ideas and dollars to the setup of the college.

The residence for the college cover all of the area now known as Queen's Park with a seven car garage for each student where the Parliament

buildings are now located. Athletic facilities for the use of members only will be quite extensive, including a nineteen acre waterskiing pond, a seven thousand foot runway for the students' runabouts, converted B-58's, and a pink indoor track for chasing coeds.

The college will also have a classroom for tax purposes, and students will adhere to a rigid two-hour-a-week lecture schedule until football season starts. The failure rate among students at the college will be unusually low, according to the new Dean, because there will be no examinations.

Because of the exhausting social schedule at YANC students will not be required to obtain P.T. credits.

Say TO For TOIKE OIKE

If you want to
Play a little longer
Live a little better
Become a member of the Toike
Oike Staff. We need

ARTISTS
WRITERS

PHOTOGRAPHERS
TRUTHMONGERS

If you want to spread the gospel of Engineering amidst the misinformed and uninformed, leave your name and phone number in the stores.

Hey Mabel! Join The Toike Oike!

The Year Book Needs You!

Whether you have had previous experience or not The Year Book can use your talents. We Require:

- ★ PHOTOGRAPHERS
- ★ CARTOONISTS
- ★ WRITERS (Sports, Events, Clubs)
- ★ ARTISTS

If you are interested, please leave your name in the Stores (Freshmen, too!)

Skule Soccerites Start Season

Soccer is enjoying a high standard of popularity on this campus and is slowly reaching recognition as a major sport.

Each year Skule has been able to field three or more soccer teams, more than any other college or faculty. This year Skule hopes again to field at least three teams. Top team will be Senior Skule, a team consisting of second, third, and fourth-year engineers. The majority of last year's team will be back in action and it is hoped that the vacant position, both in the offence and the defence, will be filled by the talented players of last year's Junior Skule squad.

The Junior Skule team will consist of players in their freshman year of engineering. This team has been one of the most successful teams of Skule soccer players, winning

the Arts Cup, symbol of intra-mural soccer supremacy, in 1957 and advancing into the playoffs in all other years. This team usually has the most talent and enthusiasm, but lacks experience.

The Skule III team and others will consist of players that were unable to make either one of the foregoing teams. An extensive training programme has been prepared for the practice sessions to be held on the front campus, Monday through Thursday at 4:00 P.M. commencing next Monday.

All interested Skulemen are invited to join these practice sessions and final team selections will be made from observations at these practices.

For further information regarding practices and equipment, phone Fred Ruprecht at PL 7-9579 after 7:30 P.M.

John's Jottings

by JOHN BELL

It is not my responsibility to justify the existence in the Faculty of Applied Science and Engineering as an integral part of the University of Toronto, but I do wonder, in spite of my pride as a member of this faculty, how much right we have to be a part of this or any other university.

If we fulfilled the role of a university through the development of the mind and the advancement of technology, our position would be stable. But this is far from the case with us. True that our graduates enrolled in graduate study partially fulfill this role, but I doubt that these few who continue in this path are sufficient justification for our existence.

One might say, however, that in this modern age we are essential to business and industry with our "engineering" background. But are the undergraduates, who complete four years of memorizing someone else's work without partaking in the outside organizational and cultural activities available on this campus, really the well developed, open minded, aware potential leaders that business and industry are seeking?

If the present standard of our education continues as it is now, there will be strong reason for concern. The world of tomorrow, indeed the world of today, is in dire need of leaders. If we cannot rise to meet the needs of this small

inner society of the University, how can we expect to go out and guide our nation?

To the Faculty I say that our "Education" is designed far more to freeze learning than to advance it, that it blunts imagination and smother criticism, that it discourages the rebel and abets the conformer. To the undergraduates I say, rebel, criticize, advance, and in this way develop your ideas and broaden your minds to ably meet the challenges ahead.

It is time that we adopted as a credo the true role of a university, time that we used its facilities for higher education and development of the mind, time that we prepared ourselves to meet tomorrow's world with success.

The enthusiasm of the freshman class displayed at the reception and at initiations is both refreshing and encouraging, and would lead us to believe that we have a great year in store. Plans are well underway for all activities and Skule Nite (which celebrates its fortieth birthday this year) is rolling in high gear.

Something to think about: "Since Sputnik flew we have been trying to find out what is wrong with our educational system and what to do with it. What we often fail to appreciate, however, is how much our schools reflect the world around them".

Editorial in the Denver "Post"

40 YEARS OF SKULE-NITE

SKULE-NITE 6T3

OPENING AT HART HOUSE THEATRE NOV. 13th

Casting soon for:-

- dancers
- singers
- musicians
- actors

Opening available for:-

- set designers
- stage crew
- set builders
- every body

Experienced help needed in:-

- sound effects
- lighting
- music arranging
- recording
- costumes

Organizational help in:-

- skit direction
- choral direction
- producing
- publicity
- orchestra direction

Sign the form at the stores

JOIN UP NOW WITH SKULE - NITE 6T3

TOIKE OIKE MEETING

Thurs. Sept. 27th - 1.00 p.m.

IN THE STORES

ALL THOSE WANTING TO UPHOLD SKULE TRADITION ARE REQUESTED TO ATTEND.

Bring Books, Lunches and Girl Friends

Sportioke

by BOB CARMICHAEL

The advent of another Skule academic year inaugurates an athletic programme that is different in several respects from those of previous years. Your Athletic Association Executive has, surprisingly enough, worked quite diligently during the summer recess to prepare a plan of organization and participation for the Faculty that will utilize to the fullest our somewhat dwindling resources. With the decrease in enrolment from 2000 three years ago to 1400 at the present, our financial subsidy \$3 per humble undergrad) has suffered a resultant decrease.

Several projects initiated during the summer were the erection of a large trophy case in the Students' Lounge in the Galbraith Building (to be paid for by donor organizations, thereby saving us an almost prohibitive expense), and the further revision and printing of the Athletic Association Constitution. This latter item is the culmination of two years of study by the Executive, and almost entirely replaces the old constitution. Included are such fundamental changes as the listing of new awards available (steins, pen-sets, manager's crests, etc.), the new scheme for athletic letter points, major changes in the composition of the Executive, and changes in the method of awarding several trophies. The new constitution has been issued to freshmen at registration, and all senior students are urged to procure a copy for reference, since the old constitution is completely obsolete.

This year inaugurates the positions of Sports Commissioners on the Executive. Each of these representatives are responsible for the administration of a number of sports, and information pertaining to their sports may be obtained directly from them at the Athletic Association Stores in Room 5 in the basement of the Electrical Building.

President, Bob Carmichael, Track, Harrier; Vice-President, Pete Casson, Volleyball; Secretary-Treasurer Jerry Skelton; First Year Rep., to be elected, Minor Basketball; Hockey Commissioner, Terry Heaslip, Hockey; Basketball Commissioner, Jerry McElroy; Major Basketball, Lacrosse; Soccer Commissioner, Fred Ruprecht, Soccer, Rugger; Football Commissioner, John Reid, Football, Waterpolo.

Any inquiries regarding intramural athletics should be directed to Bob Carmichael, and queries about inter-collegiate sports will be answered by either Bob Carmichael or Jerry McElroy.

The Equipment Manager, a new position in the Athletic Association this year, is responsible for the issuance and return of equipment, repairs and cleaning, and the administration of the Athletic Stores. He will have the Athletic Stores open at least three noon hours a week and will organize our equipment blitzes. This year's equipment manager, Ed Lahay, can be contacted at 277-0995.

A new award to be presented this year is a Manager's Crest. This will be awarded to students managing a team in any sport in intramural athletics. The managers will also be invited to the Annual "S" Dance and Awards Night (a smash held in February for all virile specimens of manhood in the faculty). Freshmen are particularly encouraged to manage, since they also receive half a year's athletic credits.

Sports starting immediately are football, soccer, and rugger, and no time should be lost in contacting the people in charge. All equipment is supplied by the Faculty.

Although the new constitution is not a money-back guarantee of a Reed Trophy (this can only be won by hordes of skulemen vanquishing all opponents on the various gridirons, rinks and hardwood floors across the campus), its effect will be felt in intramural sports for years to come. It is hoped that the system of Sports Commissioners will clear up a great deal of confusion that has occurred in the past and will provide more efficient machinery for selecting, equipping and fielding Engineering teams in both major and minor league sports.

SPS Loses Veterans Opposition Strengthens

Although the Senior Skule squad lost only eight of some thirty-odd players on last year's team through graduation, these eight included many key personnel. Gone are speedy halfback and place-kicker Jerry Lonergan and team co-captains fullback Dave Ross and Fletcher Keating, a top end. Both centres Jim White and Al Spivak are now gone, along with defensive backfielders Don Ward and Bruce Kisluk and "fighting" guard Stan Miller.

Returning to service for the '62 edition of the Big Blue are veteran linemen Emil Forint, Dave McArthur, John Reid, Ross Millar, Mart Masak and Don Boucher, along with backs Pete Wilson and John Heike.

As usual the team will have to count on a number of players from last year's scrappy Junior team, as well as a few imports from O.A.C. and R.M.C. As the Mulock Cup final last year against Victoria College showed, Senior Skule is still in crying need of some good corner line-backers, as the end run seems to be the biggest threat in the intramural loop. The quarterback slot also must be filled, the position held last year by Jack McLean.

Our capable coach for the past two seasons, Dave Wilson of Queen's, has been transferred by his firm out of Toronto, and is no longer available for coaching duties. In his place will be Gary Ewart, former defensive halfback for the Western Mustangs.

The "A" league is a mystery this year after the strenuous battle that ended in a four way tie for first place last year. Many of the stalwarts on the previous Vic teams have graduated, but one thing can be depended upon, Vic will have forty or fifty players trying to fill

those spots. St. Mikes always fields a fine team, being a rather sports-minded college. UC with Physical Education to lend support has been getting stronger over the past few years and could provide stern opposition for the rest of the league.

Engineering Society

Athletic Association

BULLETIN BOARD

The Engineering Society Athletic Association Stores in Room 5 in the basement of the Electrical Building will be open at noon-hours to issue equipment for all fall sports.

A returnable deposit of \$3 or \$5 is required.

Borrowing unforeseen difficulties Senior Skule football practices will begin on Thurs., Sept. 20 at 5:15 p.m. Returning players are asked to pick up their equipment commencing Wed., Sept. 19 (that's yesterday). The location of this secret practice will be disclosed to all interested parties at the Athletic Stores.

Junior Skule football practices will commence on Mon., Sept. 24. All players are asked to pick up their equipment starting at noon, next Monday.

The Athletic Stores are selling football boots at a 40% discount off the wholesale price. For further information call Ted Hoy at 277-0995 or at the Athletic Stores.

HELLO SKULEMEN Welcome Freshmen

FROM THE

ENGINEERING INSTITUTE OF CANADA

Publishers of the **ENGINEERING JOURNAL**

The Magazine for Canadian Engineerings

Two dollars will bring you a student membership in the Engineering Institute of Canada plus one year's subscription to the Engineering Journal

FOR FURTHER DETAILS SEE

Professor A. C. Davidson
ROOM 124 GALBRAITH BUILDING